

WHAT IS CLAIMED IS:

1. A transmission apparatus for transmitting to a receiving apparatus at least two different signals and a scene description which describes a scene formed of said at least two different signals, comprising:

maintaining means for maintaining priority level information indicating transmission priority levels with respect to said at least two different signals;

determining means for determining, in accordance with the state of a transmission path and/or a request from said receiving apparatus, signals to be transmitted based on the priority level information; and

scene description converting means for converting the scene description in accordance with the signals to be transmitted.

2. A transmission apparatus according to Claim 1, wherein said determining means determines the signals to be transmitted in descending order of the priority levels.

3. A transmission apparatus according to Claim 1, wherein said scene description converting means converts the scene description so that a larger display region and/or a more highly preferential display position is assigned to the

signals to be transmitted in descending order of the priority levels.

4. A transmission apparatus according to Claim 1, further comprising priority level determining means for determining the priority level of each of said at least two different signals in accordance with the type of signal.

5. A transmission apparatus according to Claim 1, wherein said determining means determines only the signal that complies with the processing capacity of said receiving apparatus based on the priority level information.

6. A transmission apparatus according to Claim 1, wherein said maintaining means also maintains information indicating display priority levels with respect to said at least two different signals.

7. A transmission method for transmitting to a receiving apparatus at least two different signals and a scene description which describes a scene formed of said at least two different signals, comprising:

a maintaining step of maintaining, in a memory, priority level information indicating transmission priority levels with respect to said at least two different signals;

a determining step of determining, in accordance with the state of a transmission path and/or a request from said receiving apparatus, signals to be transmitted based on the priority level information; and

a scene description converting step of converting the scene description in accordance with the signals to be transmitted.

8. A transmission method according to Claim 7, wherein, in said determining step, the signals to be transmitted are determined in descending order of the priority levels.

9. A transmission method according to Claim 7, wherein, in said scene description converting step, the scene description is converted so that a larger display region and/or a more highly preferential display position is assigned to the signals to be transmitted in descending order of the priority levels.

10. A transmission method according to Claim 7, further comprising a priority level determining step of determining the priority level of each of said at least two different signals in accordance with the type of signal.

11. A transmission method according to Claim 7,

wherein, in said determining step, only the signal that complies with the processing capacity of said receiving apparatus is determined based on the priority level information.

12. A transmission method according to Claim 7, wherein the memory also maintains information indicating display priority levels with respect to said at least two different signals.

13. A transmission system comprising:

a transmission apparatus for transmitting at least two different signals and a scene description which describes a scene formed of said at least two different signals; and

a receiving apparatus for receiving the transmitted data;

wherein said transmission apparatus comprises:

maintaining means for maintaining priority level information indicating transmission priority levels with respect to said at least two different signals;

determining means for determining, in accordance with the state of a transmission path or a request from said receiving apparatus, signals to be transmitted based on the priority level information; and

scene description converting means for converting

the scene description in accordance with the signals to be transmitted; and

said receiving apparatus comprises:

forming means for forming a scene based on the received signals and the scene description.

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